

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/23886

Continuation of B. FIELDS SEARCHED Item 3:

JPAB; EPAB and DWPI: keywords: "(co or cobalt) near (mn or manganese or cr or chromium or al or aluminum or zn or zinc or cu or copper) near4 (ferrite or \$fe2o4)" and "co\$mn\$fe\$so4 or co\$cr\$fe\$so4 or co\$cu\$fe\$so4 or co\$zn\$fe\$so4 or co\$al\$fe\$so4"

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/28432

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B01D 3/00, 11/00; F28B 3/00, 9/10

US CL : 202/169, 172, 174, 176, 185.1, 185.5, 202; 203/39, 87, 89; 165/111

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 202/169, 172, 174, 176, 185.1, 185.5, 202; 203/39, 87, 89; 165/111

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,123,481 A (ALBERS et al.) 23 June 1992 (23.06.1992), abstract, column 3, lines 35 et seq., Column 10, lines 10-50, Column 17-22 all lines.	1-5, 12-20
Y		6, 8-9
X	US 5,097,688 A (ALBERS et al.) 24 March 1992 (24.03.1992), Claims 1-5.	12-20
Y	US 5,020,588 A (ALBERS et al.) 04 June 1991 (04.06.1991), abstract, Column 3, lines 18-67 and Column 4 lines 1-63]	1-5
Y	US 5,020,355 A (ALBERS et al.) 04 June 1991 (04.06.1991), see abstract and Column 8, lines 63 et seq.	1-20
A	Larsen et al, The Carrier Gas Process—A New Desalination and Concentration Technology, 73 (1989) 119-137 Elsevier Science Publishers.	1-20
Y	WO 88/06054 (ZEILON) 25 AUGUST 1988 (25.08.1988), Page 3, line 1 et seq.	1-20

<input type="checkbox"/> Further documents are listed in the continuation of Box C.		<input type="checkbox"/> See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art *A* document member of the same patent family	
Date of the actual completion of the international search 03 November 2004 (03.11.2004)		Date of completion of the international search report 23 NOV 2004	
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Authorized officer N. Bhat Telephone No. 571-272-1700 <i>J. Whitfield</i> <i>for</i>	

Form PCT/ISA/210 (second sheet) (July 1998)

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PCT/US03/28432

Continuation of B. FIELDS SEARCHED Item 3:

USPAT, USPGPUB, DERWENT, EPO, JAPO

search terms: evaporator same dew same condensat, same heat exchang\$5, same (first and second)

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